First & Final Bill — Original/Duplicate/Triplicate

CONTRACT CERTIFICATE
(For Other Works)

No: BRNo-06
Division: R.R Nagar 03/06/2021

BRNo-06
Date: 03/06/2021

Bill Received No.....Dated.....Cash Book Voucher No.....dated.....

Sub- Division: R.R Nagar , Electrical

Scheduled Docket No.

Name of Work (as per sanctioned estimate): Providing LED Street Lights in HMT Layout, Brundavana Nagar, SBM Colony and Other Places of Ward no-17, JP Park.

Name of Contractor and Full Adress:

Executive Engineer-3,
KRIDL
Executive Engineer-3, KARNATAKA RURAL INFRASTRUCTURE DEVELOPMENT LTD. No-18, KNS Complex, 2nd Floor, Near Pavitra Paradise, Basaveshwara Nagar, Bangalore-79.

Work order No : EE/ELE/RRN/W.O/52/2017-18, Dtd: 05-03-2018

Reference to Agreement : EE/ELE/RRN/AG/52/2017-18, Dtd: 05-03-2018

Budget Head: P3106, Nagarothana Works
Job Code:017-16-000024

Certified that the measurements were taken by me on 04/11 and recorded of page nos 250426 to 250445 of measurement Book No: 2505/19-20 and that the work is satisfactorily executed.

Proforma invoice - 1710 8104.46
CGST @ 6% - 1026486.00
SGST @ 6% - 1026486.00

Asst. Executive Engineer,
Byatarayanapura Sub-Division
KRIDL, BBMP, Bangalore
Contractor

Officer in charge of work

Certified that the measurements were checked by me on 04/11/19 and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in columns 3 of Account II have been actually brought to Site of the work and the contractor has not previously received any advance on this security. These materials are of an imperishable nature and are all required for immediate use on the work in the connection with item for finished work have been agreed upon and normal agreement signed and executed by the contractor is recorded in the office

EE (Ele.)

Sub-division Officer

II Memorandum of Payment

1) Total value of work done or supplies as per account within
2) Deduct amount to be held in re3serve being ..... percent Rs.....
3) Balance
4) Deduct payment :
   a) Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D.No.....
   Amount adjusted towards cash advance recovery of
   b) Payments cost store or other material supplied
   Now made recovery amount creditable to this/ other work
   Amount paid on this bill cheque/cash
5) Balance being unpaid value of work done held in reserve
6) Deduct cash advance made on the Office Cash Book Voucher No..... dated.....less adjustments
7) Net amount due to or from contractor
   Unadjusted items
8) Advance to contractor for materials brought to site (as detailed) within
   Value of Government materials supplied

A.E.E (Ele.)
1,916,078=00

Adjustments Details

IT	383222=00
CGST	171081=00
SGST	171081=00
CBF	19161=00
FSD	958054=00
LC	191611=00
FINE	-
OTHERS	-
TOTAL	1894210=00
NETT	17266868=00

Received Rs.....(in words)
by cash and adjustment of payment as per memo

Contractors Signature

Witnesses :
1.
2.

Passed for Rs. 19161078=00 Only
Nett Cheque Rs. 17266868=00 Only
Adjustment Rs. 1894210=00 Only
Rs in Words One crore seventy lakh sixty six thousand eight hundred sixty eight only

Asst. Executive Engineer,
Byatarayanapura Sub-Division
KRIDL, BBMP, Bangalore

Dated.....Signature of Officer making payment (For use in Office)

Paid by me by cheque No.....Dated.....
Cash Rs.....Dated.....

Initials of Officer making payment

Accts Supd.

Name of the work :-: Providing LED Street lights in HMT Layout, Brundavan Nagar,SBM Colony and other places
no-17,JP park.

	Items Grouped under sub Heads and sub works of the Estimate	Unit	Previous Measurement		Present Measurement			Total Up to da	
			Qty	Cost	Qty	Rate Rs Ps	Amount Rs ps	Qty	Cost
1	LED Street light. Supply of LED Streetlight with pressure die cast aluminum housing body with optimal heat sink for better thermal dissipation. Diffuser with Injection moulded & is made of polycarbonate material with high transmission index, delivering superior light output. Rated life Burning Hrs. 50000 hr. @ Lumen Maintenance of 70%. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains Current should not be greater than 0.1A to 0.7A & Surge Protection- Min 4 KV along with Over voltage/Overload, short circuit/ miswiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Over load & Short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w at 1W & Fixture Efficiency >80lm/w with nominal CRI 75+. housing with supplier word mark / name shall be engraved / Embossing on the die cast housing / body part. . Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008. Warranty of 5 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED source manufacturer. Suitable for A1/A2 Roads as per IS 1944 Part I & Part II.								
	90 Watts	Each			106	31250.00	3312500.00	106	3312500.00
	110 Watts								
	JP PARK Main Gate Opp Road street lights	**Each**			60	34240.00	2054400.00	60	2054400.00
2	Supplying and Fixing.....mm dia class A GI pipe bracket up to 2.7 meters long terminated with a reducing collar of 40x25mm to which extra pipe of 175mm length is fixed for fixing MV/SV/MH/FTL street light fitting of all capacities on rail/RCC/wall/tubular pole, using suitable clamps, bolts ,nuts and wiring using suitable capacity wires. Using 32mm dia G.I.pipe	Each			106	1140.00	120840.00	106	120840.00
3	Fabricating, supplying and erecting swaged tubular pole of height ...Mtr having three sections, and providing two coats of red oxide paint and finished with two coats of enameled paint of approved quality and colour and M.S. base plate of suitable size welded at the bottom of the pole(as per IS) and 40mm dia GI / flexible PVC pipe of 1 mtr length fitted to the heavy gauge polycarbonate control box including 5way connector of size 167x125x82mm for 7.5M pole/200x160x98mm for remaining length of pole with front opening cover, with locking arrangements and suitable capacity MCB / DP switch, The pole shall be erected in cement concrete work (1:2:4) including excavation and refilling of planting depth of the pole to the ground level and the coping CC shall be up to 0.6M above ground level as per IS 2713 - 7. Erection of heavy duty pole on Footpath / median								
	9Mt (5Mt Hb,165.1mm dia 4.85mm thick x2M Hm, 139.7mm dia 4.50mm thick x 2M Ht,114.3mm dia 3.65mm thick) as per IS 410 SP 32								
	JP PARK Main Gate Opp Road street lights	**Each**			60	15000.00	900000.00	60	900000.00

AEE (Elec.)

	ms Grouped under sub Heads and sub works of the Estimate	Unit	Previous Measurement		Present Measurement			Total Up to date	
			Qty	Cost	Qty	Rate Rs Ps	Amount Rs ps	Qty	Cost
4	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A. 4 core 16 sqmm								
	JP PARK Main Gate Opp Road street lights	Mtr			1566				
	J P Park Sand pathway Lighting	Mtr			4345				
	Total qty	Mtr			5911				
	Qty Restricted to				5800	140.40	814320.00	5800	814320.00
	3.5 core 25 sqmm								
	JP PARK Main Gate Opp Road street lights	Mtr			76				
	J P Park Sand pathway Lighting	Mtr			413				
	J.P Park Play ground Street Lights	Mtr			1007				
	Total qty	Mtr			1496	165.600	247737.60	1496	247737.60
	3.5 core 50 sqmm								
	J.P Park Play ground Street Lights	Mtr			398	265.000	105470.00	398	105470.00
5	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.In existing trench/duct. 6 sqmm to 16 sqmm	Mtr							
	JP PARK Main Gate Opp Road street lights	Mtr			1400				
	J P Park Sand pathway Lighting	Mtr			4400				
	Total qty	Mtr			5800	10.80	62640.00	5800	62640.00
	25 sqmm to 75 sqmm								
	JP PARK Main Gate Opp Road street lights	Mtr			76				
	J P Park Sand pathway Lighting	Mtr			413				
	J.P Park Play ground Street Lights	Mtr			1405				
	Total qty	Mtr			1894	16.20	30682.80	1894	30682.80
6	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete.(As per Civil SR KSRB I-2, P-7) In soil (ORDINARY)								
	JP PARK Main Gate Opp Road street lights	Mtr			50				
	J P Park Sand pathway Lighting	Mtr			4200				
	Total qty	Mtr			4250	78.00	331500.00	4250	331500.00
	Asphalt cutting								
	JP PARK Main Gate Opp Road street lights	Mtr			1290	117.00	150930.00	1290	150930.00
	Soil Hard								
	J.P Park Play ground Street Lights	Mtr			1030	106.00	109180.00	1030	109180.00
7	Supply and laying double walled corrugated (DWC) HDPE Pipe including all necessary connecting Sockets/Couplings/Tees/Bends/End-caps of same materials in existing trench as per IS 14930 part -II suitable for drawing underground cables. 50mm OD / 38mm ID								
	JP PARK Main Gate Opp Road street lights	Mtr			0				
	J P Park Sand pathway Lighting	Mtr			4200				
	J.P Park Play ground Street Lights	Mtr			0				
	Total qty	Mtr			4200	151.00	634200.00	4200	634200.00
8	Supply and installaion / Fixing / Provision for mounting of HRC Fuse/ MCB with suitable connector/ terminal for 3 Ph / 1 Ph connections with Loop-In & Loop-Out terminals for 10 SQmm/25 Sqmm 3.5 C Al/ Ar Cable and branch out 2.5 Sqmm 2 core Al/Cu PVC insulated cable, enclosed in a Thermoplastic, Polystyrene enclosure, which should be shock proof having internally Embedded Gasket with provision for cable entry through IP65 Thermoplastic, polyamide glands and / or grommets. 200x200x98mm (PWD Electrical SR 2010-11)								
	JP PARK Main Gate Opp Road street lights	Each			60				
	J.P Park Play ground Street Lights	Each			52				
	Total qty	Each			112	925.00	103600.00	112	103600.00
9	Supplying and fixing hylum plastic sheet 3mm thick with necessary nitches for fixing switches, regulators etc., and fixing on existing wood or metal box using N.F. screws.								
	JP PARK Main Gate Opp Road street lights	Sq CM			7000				

	Items Grouped under sub Heads and sub works of the Estimate	Unit	Previous Measurement		Present Measurement			Total Up	
			Qty	Cost	Qty	Rate Rs Ps	Amount Rs ps	Qty	Co
	J P Park Sand pathway Lighting	Sq CM			7200				
	Total qty	**Sq CM**			14200	0.22	3124.00	14200	3124.00
10	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100v grade, multistrand copper with low conductor resistence single core wire in open or consealed system of wiring wit specified IS-694:1990 & confirming to GTP of group A. 2.5 SQMM								
	JP PARK Main Gate Opp Road street lights	Mtr			1450				
	J P Park Sand pathway Lighting	Mtr			2400				
	4 sqmm Total qty	**Mtr**			3850	29.20	112420.00	3850	112420.00
	J.P Park Play ground Street Lights								
	6sqmm	**Mtr**			998	36.30	36227.40	998	36227.40
	JP PARK Main Gate Opp Road street lights	Mtr			20				
	J P Park Sand pathway Lighting	Mtr			98				
	J.P Park Play ground Street Lights	Mtr			20				
	Total qty	**Mtr**			138	63.80	8804.40	138	8804.40
11	Supplying and fixing Microprocessor Based Astronomical timer Switch with using necessary bolts, nuts and washers.								
	JP PARK Main Gate Opp Road street lights	Each			2				
	J P Park Sand pathway Lighting	Each			4				
	J.P Park Play ground Street Lights	Each			2				
	Total qty	**Each**			8	4586.00	36688.00	8	36688.00
12	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers. (Item No. - 6.7)-63Amps (Item No. - 6.7.3)								
	JP PARK Main Gate Opp Road street lights	Each			6				
	J P Park Sand pathway Lighting	Each			6				
	J.P Park Play ground Street Lights	Each			6				
	Total qty	**Each**			18	234.00	4212.00	18	4212.00
13	Supply and fixing of 4pole power contactor with NO/NC contacts on existing wood/panel board using necessary bolts, nuts, washers and wiring etc., complete with AC-3 Rating and as per IS-13947. (Item No. - 6.12)--60-70Amps (Item No. - 6.12.3)								
	JP PARK Main Gate Opp Road street lights	Each			2				
	J P Park Sand pathway Lighting	Each			4				
	J.P Park Play ground Street Lights	Each			1				
	Total qty	**Each**			7	4774.00	33418.00	7	33418.00
14	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. (Item No. - 6.16) 40-63Amps TPN (Item No. - 6.16.6)								
	JP PARK Main Gate Opp Road street lights	Each			2				
	J P Park Sand pathway Lighting	Each			4				
	Total qty	**Each**			6	1936.00	11616.00	6	11616.00
15	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. (Icu = Ics) THREE POLE 6.13.1)100Amps 25kA.								
	J P Park Sand pathway Lighting	Each			2				
	J.P Park Play ground Street Lights	Each			4				
	250Amps 35kA. Total qty	**Each**			6	4044.00	24264.00	6	24264.00
	J.P Park Play ground Street Lights	Each			2	16327.00	32654.00	2	32654.00
16	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. and M.S. flat ... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. (Item No. - 6.39)-40x40x6mm (Item No. - 6.39.1)								
	JP PARK Main Gate Opp Road street lights	Mtr			20				

AEE (Ele.)

	ems Grouped under sub Heads and sub works of the Estimate	Unit	Previous Measurement		Present Measurement			Total Up to date	
			Qty	Cost	Qty	Rate Rs Ps	Amount Rs ps	Qty	Cost
	J P Park Sand pathway Lighting	Mtr			80				
	J.P Park Play ground Street Lights	Mtr			20				
	Total qty	Mtr			120	263.00	31560.00	120	31560.00
17	Fabricating supplying and mounting MS box made out ... SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete. (Item No. - 6.4)--14SWG (Item No. - 6.40.1)								
	JP PARK Nakshatra van panel	sq.cms			10000				
	J P Park Sand pathway Lighting	sq.cms			340000				
	Total qty	sq.cms			350000	0.37	129500.00	350000	129500.00
18	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 122 mm dia (Item No. - 7.1)								
	JP PARK Main Gate Opp Road street lights	No			2				
	J P Park Sand pathway Lighting	No			4				
	J.P Park Play ground Street Lights	No			1				
	Total qty	No			7	2727.00	19089.00	7	19089.00
19	Supplying and fixing of class A (medium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV. (Item No. - 7.12)-40mm (Item No. - 7.12.1)								
	JP PARK Main Gate Opp Road street lights	Mtr			30				
	J P Park Sand pathway Lighting	Mtr			60				
	J.P Park Play ground Street Lights	Mtr			40				
	Total qty	Mtr			130	345.00	44850.00	130	44850.00
20	Supplying and fixing L.T. cast Iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc. 35Sqmm (Item No. - 7.13.4)								
	JP PARK Main Gate Opp Road street lights	Each			2				
	J P Park Sand pathway Lighting	Each			4				
	J.P Park Play ground Street Lights	Each			2				
	Total qty	Each			8	362.00	2896.00	8	2896.00
21	Supplying and fixing of heavy duty cable glands suitable for UG cable of 1.1 KV class (metal only) (Item No. - 7.14)32mm dia (Item No. - 7.14.3								
	JP PARK Main Gate Opp Road street lights	Each			2				
	J P Park Sand pathway Lighting	Each			8				
	J.P Park Play ground Street Lights	Each			2				
	Total qty	Each			12	122.00	1464.00	12	1464.00
22	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes. (Item No. - 7.21) 16 sqmm (Item No. - 7.21.6)								
	JP PARK Main Gate Opp Road street lights	Each			240				
	J P Park Sand pathway Lighting	Each			1000				
	Total qty	Each			1240	11.31	14024.40	1240	14024.40
	25 sqmm Long Barrel (Item No. - 7.21.8)								
	JP PARK Main Gate Opp Road street lights	Each			12				
	J P Park Sand pathway Lighting	Each			18				
	J.P Park Play ground Street Lights	Each			208				
	Total qty	Each			238	20.59	4900.42	238	4900.42

	Items Grouped under sub Heads and sub works of the Estimate	Unit	Previous Measurement		Present Measurement			Total Up	
			Qty	Cost	Qty	Rate Rs Ps	Amount Rs ps	Qty	C
23	Supplying and running GI/Copper conductor for grounding and (along with other wires in conduit system of wiring) using necessary suitable size clamps, nails, guttas/spacers etc. GI Wire (Item No. - 7.22.A)-8 SWG (Item No. - 7.22..3)								
	JP PARK Main Gate Opp Road street lights	Mtr			20				
	J P Park Sand pathway Lighting	Mtr			50				
	J.P Park Play ground Street Lights	Mtr			20				
	Total qty	Mtr			90	19.50	1755.00	90	1755.00
24	KSRB 2-2.2 : Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(b) / 2.3.5 (Item No. - 2.4, Page No. 5)								
	J P Park Sand pathway Lighting	Cum			1.00				
	J.P Park Play ground Street Lights	Cum			6.48				
	Total qty	Cum			7.48	332.98	2490.69	7.48	2490.69
25	KSRB 4-1.5 : Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.43cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 (Item No. - 4.5, Page No. 12)								
	J P Park Sand pathway Lighting	Cum			1.00				
	J.P Park Play ground Street Lights	Cum			6.48				
	Total qty	Cum			7.48	6520.72	48774.99	7.48	48774.99
26	Supplying and fixing telescopic M.S. bracket fabricated by using 0.5m length 4" dia telescopic M. S. pipe, with 2" dia 1.5m long M. S. bracket and are welded with suitable angle, using 6mm thick M. S. sheet, grip bolts & nuts, as required, suitable for 9 to 12 mtrs. M. S. tubular pole, with necessary two coats of painting, with all other accessories. Single bracket 2 Mtr. Length								
	JP PARK Main Gate Opp Road street lights	Each			60	1677.00	100620.00	60	100620.00
27	Fabricating, supplying and Errection of swaged/Stepped M.S tubular pole of height 4 Mtr having three sections and providing two coats of PU Primer and finished with two coats of PU paint of approved quality and colour. The pole shall be Foundation Mountable having the MS Base plate of size 200x250x8mm, which will be welded at the bottom of the pole (as per IS). Termination compartment within the pole at Suitable Height with door opening arrangements, including suitable boards, Bakelite sheet and MCBs. The pole shall be fitted with decorative arm/bracket at suitable height. The pole will be fitted with aluminium spinn at the steppings which will be painted gold colour.The Arm/Bracket will be fitted with Decorative aluminium casting flowers of 2 Nos at suitable places. a) 4 Mtr Pole. (Top- 1.5 mtr Height, 76.1 mm outer dia, 2.9 mm thick, Bottom-1mtr Height, 114 mm outer dia, 3.2 mm Thickness, Middle-1.5mtr Height, 89 mm outer dia, 2.9 mm thick, complete) The decorative arm/Bracket shall be MS pipe of 42 mm outer dia, 2.6 mm thick the length of arm will be approx. 3mtr, including bending as per the approved design. Foundation bolts/nuts of size M12X500 complete including loading, unloading and Transportation to Work Site. (excluding Suitable foundation)								

	ems Grouped under sub Heads and sub works of the Estimate	Unit	Previous Measurement		Present Measurement			Total Up to date	
			Qty	Cost	Qty	Rate Rs Ps	Amount Rs ps	Qty	Cost
	J P Park Sand pathway Lighting	**Each**			**250**	**16225.00**	**4056250.00**	250	4056250.00
28	Supply, installation, testing and commissioning of booster amplifier with power handling of 750 watt RMS 4ohms Dual and 100/70 volt output on bridge mode single channel Rack mountable Specs: frequency response : 20 htz to 20khtz Make: Ahuja/Equivalent.								
	J P Park Sand pathway Lighting	**Each**			**4**	**76700.00**	**306800.00**	4	306800.00
29	Supplying and fixing of 6 Watts outdoor waterproof speaker with IP66 protection, made up of plastic cone. Make: Ahuja/Equivalent.								
	J P Park Sand pathway Lighting	**Each**			**220**	**1888.00**	**415360.00**	220	415360.00
30	Supplying and fixing of Line matching transformer of approved makefor impedenace matcing to improve the Signal gain with 1.5/3/6watts tappings.								
	J P Park Sand pathway Lighting	**Each**			**220**	**944.00**	**207680.00**	220	207680.00
31	Speaker Cables Supply, installation, testing and commissioning professional grade 2.5 sq mm TIN coated low loss 2 core multi strand Oxidation Free speaker cable including, lead and lifts, loading and unloading, cost of conveyance for all the materials with the accessories.								
	J P Park Sand pathway Lighting	**meter**			**4450**	**38.00**	**169100.00**	4450	169100.00
32	Supply, installation, testing and commissioning of 4 to 6 Channel 4 mic/line input mixer with 2/3 band semi parametric eq 2 bus and 2 aux 2 stereo return.								
	J P Park Sand pathway Lighting	**No**			**2**	**12800.00**	**25600.00**	2	25600.00
33	LED Street light.Supply of LED Streetlight with pressure die cast aluminum housing body with optimal heat sink for better thermal dissipation. Diffuser with Injection moulded & is made of polycarbonate material with high transmission index, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminare > IK08. Power Factor >0.9 with mains Current should not be greater than 0.1A to 0.7A & Surge Protection- Min 4KV along with Over voltage/Overload, short circuit/ miswiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Over load & Short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w at 1W & Fixture Efficiency >80lm/w with nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 5 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED source manufacture. Suitable for B1/B2 Roads as per IS 1944 Part I & Part II.								
	LED Streetlight 24watts								
	J P Park Sand pathway Lighting	**Each**			**250**	**6912.00**	**1728000.00**	250	1728000.00

AEE (Elo.)

	Items Grouped under sub Heads and sub works of the Estimate	Unit	Previous Measurement		Present Measurement			Total Up to date	
			Qty	Cost	Qty	Rate Rs Ps	Amount Rs ps	Qty	Cost
34	Accessories- Open Type Heavy Duty Ferromagnetic Copper Ballast for HPSV/HPMH lamps: Supply of High Intensity Discharge Electro Magnetic Ballast suitable for ...W sodium vapor / Metal Halide lamp with Copper winding of Orthocyclic winding coil. Class H insulated dual coated copper wire. Compliance to IEC 61347-2-9 Safety & IEC 60923 - Performance. Winding Temperature for HID Ballast tw = 130 deg C & temperature rise ?T = 70 deg C. For 400 - Watts								
	J.P Park Play ground Street Lights	Each			40	3524.00	140960.00	40	140960.00
35	Accessories- Ignitor Suitable for 70 to 400 Watts SV/MH fittings								
	J.P Park Play ground Street Lights	Each			40	222.00	8880.00	40	8880.00
36	Supply of 400W Metal Halide single end tubular Lamp with lumen output of 25000 lumens & CCT 3000 & CRI 80+ & Avg life greater than 20,000 Hrs. with Cap Base E40								
	J.P Park Play ground Street Lights	Each			50	1078.00	53900.00	50	53900.00
37	Supplying High pressure ..... Metal halide flood light luminary suitable for use with high pressure metal halide lamp with integrated control gear. The fitting shall be non corrosive high pressure die cast aluminum housing powder coated with toughened and heat resistant glass with low copper content black/grey powder coated paint finish with EPDM gasket. Reflector shall be made of high purity pre-anodized aluminum. Cable entry through a cable gland with toggle clips. IP 65 protection for both and optical and electrical compartment. Bottom cover may be with polycarbonate / tempered / toughened glass. Luminaire efficiency should be > 60% and ambient temperature > 35 deg C. High intensity discharge Electro magnetic ballast with copper winding of Octocyclic winding coil. Class H insulated dual coated copper wire. Compliance to IEC 61347-2-9 Safety and IEC 60923- performance. Winding temperature for HID ballast tw = 130 deg C and temperature rise ?T - 70 deg C. Luminaire shall be suitable to operate on 230/250Volts 50Hz AC supply finish including wiring, ignitor, condenser. SS Toggles for opening front hingeable glass, prewired to terminal block.2x400Watts								
	J.P Park Play ground Street Lights	Each			16	22800.00	364800.00	16	364800.00
	SUB TOTAL-1						17160682.70		17160682.70
	Add KRIDL CHARGES AS PER AGREEMENT @ 11% on Sub Total-1						1887675.10		1887675.10
	SUB TOTAL-2						19048357.79		19048357.79
	Bescom Statutory Deposit Charges Paid by Contractor								
	2MMD FEE Paid Vide Receipt no-350137285730, Dtd:31/7/2018.						36420.00		36420.00
	2MMD FEE Paid Vide Receipt no-730805990354, Dtd:31/7/2018.						36420.00		36420.00
	2MMD FEE Paid Vide Receipt no295651168464, Dtd:31/7/2018.						36420.00		36420.00
	BESCOM Energy meter purchase cost beared by Contractor:								
	Paid VideTax Invoice no-RJN/18/001222, Dtd:2/8/2018						1730.00		1730.00
	Paid VideTax Invoice no-RJN/18/001224, Dtd:2/8/2018						1730.00		1730.00
	Sub Total-3						112720.00		112720.00
	GRAND TOTAL						19161077.79		19161077.79
	Rupees One Crore Ninety One Lakh Sixty One Thousand and Seventy Seven Only Paise Seventy Nine Only								

Certificate: Certified that this work carried out satisfactorily.